

Listing of Claims

Claim 1 (Previously Presented): A method of transferring data from a database client to a database server, wherein said database client and said database server are connected by a network, wherein said database server enables storage and access of said data in response to structured queries received from said database client, said method being performed in said database client, said method comprising:

determining in said database client whether to send said data in a compressed format, wherein said data is contained in a database query to be sent to said database server;

if it is determined to send said data in said compressed format, compressing said data to generate compressed data using a compression approach and sending said compressed data to said database server-on said network; and

otherwise, sending said data in an uncompressed format to said database server-on said network,

wherein said determining checks a processing load on said database server and determines not to send said data in said compressed format if the processing load on said database server is determined to be more than a first threshold.

Claims 2 - 3 (Canceled)

Claim 4 (Original): The method of claim 1, wherein said determining checks a type of said data and determines not to send said data in said compressed format if said type does not lend to substantial data compression.

Claim 5 (Original): The method of claim 1, wherein said determining examines a size of said data and determines not to send said data in said compressed format if said size is small.

Claim 6 (Previously Presented): The method of claim 5, wherein said determining further checks a speed of data transfer on said network and determines not to use said compressed format if said speed is high.

Claim 7 (Canceled)

Claim 8 (Previously Presented): The method of claim 1, wherein said determining further checks a speed of data transfer on said network and determines not to use said compressed format if said speed is high,

wherein said speed is determined by including a first local time stamp in a packet sent to said database server, and receiving a second time stamp and a third time stamp from said database server-at a time specified by a fourth local time stamp, wherein said second time stamp indicates a time at which said packet is received in said database server and said third time stamp indicates a time at which said packet is sent from said database server-, wherein said speed is determined based on said first local time stamp, said second time stamp, said third time stamp, and said fourth time stamp.

Claim 9-10 (Canceled)

Claim 11 (Withdrawn and Currently Amended): A computer readable medium carrying one or more sequences of instructions for causing a first end system to transfer a second end system, wherein said first end system and said second end system are connected by a network, wherein said first end system is one of a database server and a database client and said second end system is the other one of said database server and said database client, wherein said database server enables storage and access of said data in response to structured queries received from said database client, wherein execution of said one or more sequences of instructions by one or more processors contained in said first end system causes said one or more processors to perform the actions of:

determining in said first end system whether to send said data in a compressed format, wherein said data is contained in a database query to be sent to said second system;

if it is determined to send said data in said compressed format, compressing said data to generate compressed data using a compression approach and sending said compressed data to said second end system on said network; and

otherwise, sending said data in an uncompressed format to said second end system on said network,

wherein said determining checks a processing load in a previous time duration on said second end system, and determines not to send said data in said compressed format if the processing load in said previous time duration on said second end system is determined to be more than a first threshold.

Claims 12 - 13 (Canceled)

Claim 14 (Withdrawn): The computer readable medium of claim 11, wherein said determining checks a type of said data and determines not to send said data in said compressed format if said type does not lend to substantial data compression.

Claim 15 (Withdrawn): The computer readable medium of claim 11, wherein said determining examines a size of said data and determines not to send said data in said compressed format if said size is small.

Claim 16 (Withdrawn): The computer readable medium of claim 15, wherein said determining further checks a speed of data transfer on said network and determines not to use said compressed format if said speed is above a second threshold.

Claim 17 (Canceled)

Claim 18 (Withdrawn): The computer readable medium of claim 11, wherein said determining further checks a speed of data transfer on said network and determines not to use said compressed format if said speed is above a second threshold,

wherein said speed is determined by including a first local time stamp in a packet sent to said second end system, and receiving a second time stamp and a third time stamp from said second end system at a time specified by a fourth local time stamp, wherein said second time stamp indicates a time at which said packet is received in said second end system and said third time stamp indicates a time at which said packet is sent from said second end system, wherein said speed is determined based on said first local time stamp, said second time stamp, said third time stamp, and said fourth time stamp.

Claim 19 (Withdrawn): The computer readable medium of claim 11, wherein said first end system is a database client, and said second end system is a database server such that data is transferred from said database client to said database server

Claim 20 (Withdrawn): The computer readable medium of claim 11, wherein said data comprises software instructions.

Claim 21 (Withdrawn): An apparatus for transferring data from a first end system to a second end system, wherein said first end system and said second end system are connected by a network, said apparatus being performed in said first end system, said apparatus comprising:

means for determining in said first end system whether to send said data in a compressed format;

means for compressing said data to generate compressed data using a compression approach and means for sending said compressed data to said second end system on said network if it is determined to send said data in said compressed format; and

means for sending said data in an uncompressed format to said second end system on said network otherwise,

wherein said means for determining checks a processing load in a previous time duration on said second end system, and determines not to send said data in said compressed format if the processing load in said previous time duration on said second end system is determined to be more than a third threshold.

Claims 22 - 23 (Canceled)

Claim 24 (Withdrawn): The apparatus of claim 21, wherein said means for determining checks a type of said data and determines not to send said data in said compressed format if said type does not lend to substantial data compression.

Claim 25 (Withdrawn): The apparatus of claim 21, wherein said means for determining examines a size of said data and determines not to send said data in said

compressed format if said size is small.

Claim 26 (Withdrawn): The apparatus of claim 25, wherein said means for determining further checks a speed of data transfer on said network and determines not to use said compressed format if said speed is high.

Claim 27 (Withdrawn): The apparatus of claim 26, wherein said means for determining determines said speed by sending an ICMP echo packet.

Claim 28 (Withdrawn): The apparatus of claim 21, wherein said means for determining further checks a speed of data transfer on said network and determines not to use said compressed format if said speed is high,

wherein said means for determining includes a first local time stamp in a packet sent to said second end system, and receives a second time stamp and a third time stamp from said second end system at a time specified by a fourth local time stamp, wherein said second time stamp indicates a time at which said packet is received in said second end system and said third time stamp indicates a time at which said packet is send from said second end system, wherein said speed is determined based on said first local time stamp, said second time stamp, said third time stamp, and said fourth time stamp.

Claim 29 (Withdrawn): The apparatus of claim 21, wherein said first end system is a database server, and said second end system is a database client such that data is transferred from said database server to said database client.

Claim 30 (Previously Presented): The method of claim 1, wherein said determining checks said processing load in a plurality of corresponding previous time durations on said database server including at a first time instance and then at a second time instance, and determines not to send data in said compressed format between said first time instance and said second time instance if the processing load determined at said first time instance is more than said first threshold.

Claim 31 (Previously Presented): The method of claim 30, wherein said determining checks processing load on said database client and determines to send said data in said compressed format if the processing load on said database server is not more than said first threshold and if the processing load on said database client is not more than a second threshold.

Claim 32 (Withdrawn): The computer readable medium of claim 11, wherein said determining checks said processing load in corresponding previous time durations on said second end system periodically including at a first time instance, then at a second time instance and then at a third time instance, and determines not to send data in said compressed format between said first time instance and said second time instance if the processing load at said first time instance is more than said first threshold, wherein said determining further determines to send data in said compressed format between said second time instance and said third time instance if the processing load at said second time instance is not more than said first threshold.

Claim 33 (Withdrawn): The computer readable medium of claim 32, wherein said determining checks processing load on said first end system and determines to send said data in said compressed format if the processing load on said second end system is not more than said first threshold and if the processing load on said first end system is not more than a second threshold.

Claim 34 (Withdrawn): The apparatus of claim 21, wherein said means for determining checks said processing load in corresponding previous time durations on said second end system periodically including at a first time instance, then at a second time instance and then at a third time instance, and determines not to send data in said compressed format between said first time instance and said second time instance if the processing load at said first time instance is more than said first threshold, wherein said means for determining further determines to send data in said compressed format between said second time instance and said third time instance if the processing load at said second time instance is not more than said first threshold.

Claim 35 (Withdrawn): The apparatus of claim 34, wherein said means for determining checks processing load on said first end system and determines to send said data in said compressed format if the processing load on said second end system is not more than said first threshold and if the processing load on said first end system is not more than a second threshold.

Claim 36 (Currently Amended): A computing system comprising:
a database server to enable storage and access of data using structured ~~queries~~ query
language (SQL);

a network to provide connectivity to said database server; and

a second end system comprising:

a client block to generate a database query according to said SQL to be sent to said database server, wherein said database query contains a data to be stored in said database server;

a session layer block to establish a connection with said database server on said network, wherein said connection enables sending of said database query to said database server; and

a compression block to determine whether to send said data in a compressed format,

wherein if it is determined to send said data in a compressed format, said compression block to compress said data to generate compressed data and said session layer block to send said compressed data on said connection to said database server,

otherwise, said session layer block to send said data in an uncompressed format on said connection to said database server.

Claim 37 (Previously Presented): The computing system of claim 36, wherein said compression block determines a processing load on said database server in a corresponding previous time duration at a plurality of time instances, and decides whether or not to send data in said compressed format based on the processing load determined in a preceding time instance.

Claim 38 (Previously Presented): The computing system of claim 37, wherein said second end system comprises a database client.

Claim 39 (Previously Presented): The computing system of claim 37, wherein said second end system comprises another database server.